



## Khaoula ALLAK

Data Scientist | Big Data and Cloud Computing Engineering  
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🌐 Khaoula ALLAK

Passionate about machine learning, generative AI, NLP and LLMs, with practical experience in developing AI-driven solutions. Proficient in data analysis, model training, customized conversational chatbots and data-driven problem-solving. Eager to apply knowledge in real-world settings and gain industry experience. Looking for internship opportunities to further enhance my skills.

## EDUCATION

- **ENSET Mohammedia** Expected Graduation Summer of 2025  
*Engineering degree (Big Data & Cloud Computing)*
- **AL Khansaa** Sep 2020 - Aug 2022  
*Preparatory classes (MP)*

## EXPERIENCE

- **Ninwid Technologies** Jul-Aug 2023  
*Full Stack Engineer (Internship)* Casablanca
  - Designed and developed a website to transform customer management and automate announcements. Simplified client management by automating key tasks for efficiency.
- **UM6P** Jul-Sept 2024  
*Machine Learning Engineer (Internship)* Ben Guerir, Marrakesh-Safi
  - Developed a cutting-edge solution using NLP, real-time AI processing, machine learning, and computer vision to assist football coaches in making real-time predictions about player performance. The system collects data from sensors placed on players, providing instantaneous feedback on their status enabling coaches to make informed decisions during games.

## PERSONAL PROJECTS

- **FootInsights** 2024  
*Data-Driven decisions in real time for coaches*
  - Tools & technologies used: LangChain, OpenAI, Django, React, MongoDB, OpenCV, YOLOv8, Ultralytics
  - This platform leverages machine learning to analyze vast player datasets. It utilizes computer vision for player tracking and NLP to extract insights from unstructured data. It employs scalable cloud-based architectures for efficient data storage and processing, enabling real-time analytics and performance monitoring.
- **MedGPT** 2022  
*Customized Chatbot for healthcare professionals*
  - Tools & technologies used: Django, TensorFlow, Keras, PyTorch, PostgreSQL
  - MedGPT is specifically trained to provide recommendations related to heartbeat, revolutionizing healthcare by centralizing medical data focused on heart health. It enables instant access to information for informed decision-making and facilitates precise and rapid diagnostics.

## TECHNICAL SKILLS

**Languages:** c, c++, javascript, java, python  
**Design:** css, bootstrap, tailwind css, figma, LaTeX  
**Frameworks:** React, Angular, Spring Boot, Express.js, Node.js, Laravel, Django  
**Cloud/Databases:** MySQL, MongoDB, Cassandra, Kibana, Elastic Search, Redis,  
**Soft Skills:** Problem Solving, Teamwork, Leadership, Communication  
**Big data technologies:** Apache Spark, Hadoop, Apache Airflow, Docker, Kubernetes

## POSITIONS OF RESPONSIBILITY

- **President** : Google Developers Student Club ENSET Mohammedia 2023-2024
- **Core Team member** : GDSC - N7 Geeks Aggregation 2022-2023

## CERTIFICATIONS:

- **Foudation: Data, Data, Everywhere** Nov 2022
- **Modernizing Data Lakes and Data Warehouses with GCP** Jun 2022
- **Oracle Cloud Infrastructure Generative AI Professional** Jun 2022
- **Introduction to MongoDB** Jun 2022